

Mineral Industry Surveys

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MANGANESE IN FEBRUARY 2014

Preliminary domestic data (gross weight) for February 2014 indicated that consumption of manganese ore containing more than 20% manganese, exclusive of that consumed at iron and steel plants, was 47,000 metric tons (t). This was 25% more than the revised amount consumed in January 2014 (37,500 t). Manganese ore consumption during the first 2 months of 2014 was 13% less than that consumed during the same period of 2013. This decrease in manganese ore consumption was primarily the result of continuing curtailment at Felman

Production, LLC's silicomanganese production facility in Letart, WV. Industry stocks of ore at the end of February 2014 were estimated to be 172,000 t, which was a 14% decrease from those at the end of January 2014.

Included in this Mineral Industry Surveys are U.S. spot market prices and U.S. foreign trade data for selected manganese-containing materials in February 2014.

TABLE 1
PRICES FOR MANGANESE FERROALLOYS, METAL, AND ORE IN FEBRUARY 2014

		High	Low	Average	Average low, mid, and high
<u>Manganese ferrous alloys:¹</u>					
High-carbon ferromanganese, 75% manganese	dollars per long ton of contained manganese	1,120.00	1,060.00	1,088.75	XX
Medium-carbon ferromanganese, 85% manganese	cents per pound of contained manganese	91.50	86.00	87.94	XX
Silicomanganese, 65% manganese	do.	61.00	58.00	59.25	XX
Manganese metal, 99.9% manganese flake ²	cents per pound	130.00	128.00	XX	128.00–129.00–130.00
<u>Manganese ore:^{3, 4}</u>					
36%–39% manganese	dollars per metric ton unit contained manganese	4.50	4.25	XX	4.25–4.38–4.50
44% manganese	do.	5.30	5.20	XX	5.20–5.25–5.30
46% manganese	do.	5.45	5.35	XX	5.35–5.40–5.45

do. Ditto. XX Not applicable.

¹Platts Metals Week; in U.S. warehouse; average prices reported for all transactions during the month.

²CRU Ryan's Notes North American transaction prices, electrolytic manganese metal flake, 99.99% manganese, free-on-board producing point or Chicago/Pittsburgh warehouse; average prices reported for the price range.

³CRU Ryan's Notes, cost and freight, China; average prices reported for the price range.

⁴To determine dollars per metric ton of ore (gross weight), multiply the manganese content percentage by the price; that is, by 46 when the manganese content is 46%.

TABLE 2
SELECTED U.S. FOREIGN TRADE IN MANGANESE¹

(Metric tons, manganese content)²

	Imports for consumption			Exports		
	Ore and dioxide	Ferroalloy and metal	Total	Ore	Ferroalloy and metal	Total
2013:						
January	11,300	26,200	37,500	16	464	480
February	30,100	48,400	78,500	10	588	599
January–February	41,400	74,600	116,000	26	1,050	1,080
2014:						
January	6,510	32,200	38,700	21	1,130	1,150
February	28,000	61,500	89,500	202	1,100	1,310
January–February	34,500	93,700	128,000	223	2,230	2,450

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²As reported except as estimated for imports of manganese dioxide and manganese waste and scrap and for exports from gross weights.

Source: U.S. Census Bureau.

TABLE 3
U.S. IMPORTS FOR CONSUMPTION OF SILICOMANGANESE IN FEBRUARY 2014¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	January–February		
				Gross weight	Mn content	Customs value ²
Australia	1,310	873	\$1,000,000	11,500	7,790	\$9,900,000
Brazil	3,020	1,990	3,090,000	6,040	3,970	6,150,000
Georgia	14,200	9,900	13,400,000	15,300	10,700	14,400,000
India	405	255	603,000	405	255	603,000
Mexico	100	65	112,000	3,100	2,020	3,190,000
Norway	1,810	1,180	2,220,000	6,100	4,020	6,400,000
South Africa	14,100	9,260	14,300,000	24,200	15,900	24,500,000
Total	34,900	23,500	34,700,000	66,700	44,600	65,200,000

¹Data rounded to no more than three significant digits; may not add to totals shown.

²Customs value generally represents a value in the foreign country and therefore excludes U.S. import duties, freight, insurance, and other charges incurred in bringing the material into the United States.

Source: U.S. Census Bureau.

TABLE 4
U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN FEBRUARY 2014¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	January–February		
				Gross weight	Mn content	Customs value ²
Low carbon:						
China	1,830	1,690	\$4,190,000	2,950	2,720	\$6,710,000
France	--	--	--	19	15	48,300
Korea, Republic of	1,510	1,500	2,930,000	1,510	1,500	2,930,000
Norway	2,220	1,810	3,230,000	2,770	2,260	4,050,000
South Africa	189	179	443,000	486	461	1,150,000
Total	5,740	5,180	10,800,000	7,730	6,950	14,900,000
Medium carbon, 1%–2% C:						
India	1	1	3,250	1	1	3,250
Korea, Republic of	3,000	2,400	3,950,000	3,000	2,400	3,950,000
Mexico	181	141	458,000	240	186	541,000
Norway	900	729	1,110,000	1,480	1,200	1,820,000
South Africa	1,940	1,530	2,440,000	1,940	1,530	2,440,000
Total	6,020	4,800	7,960,000	6,660	5,320	8,760,000
Medium carbon, 2%–4% C, Brazil	--	--	--	135	100	123,000
High carbon:						
Australia	11,800	8,990	7,980,000	15,700	12,000	10,400,000
Brazil	--	--	--	135	101	117,000
Canada	--	--	--	10	7	13,500
Korea, Republic of	--	--	--	200	153	199,000
South Africa	22,000	16,800	19,400,000	25,300	19,400	21,700,000
Ukraine	19	12	25,100	63	42	83,400
Total	33,800	25,800	27,400,000	41,400	31,600	32,600,000
Grand total	45,500	35,800	46,200,000	55,900	44,000	56,400,000

-- Zero.

¹Data rounded to no more than three significant digits; may not add to totals shown.

²Customs value generally represents a value in the foreign country and therefore excludes U.S. import duties, freight, insurance and other charges incurred in bringing the material into the United States.

Source: U.S. Census Bureau.

TABLE 5
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE ORE (20% OR MORE Mn) IN FEBRUARY 2014^{1,2}

(Metric tons)

Source	Gross weight	Mn content	Customs value ³	January–February		
				Gross weight	Mn content	Customs value ³
More than 20%, but less than 47% manganese:						
Gabon	19,500	7,130	\$3,840,000	28,600	11,400	\$5,130,000
Mexico	117	55	34,500	178	83	53,700
Total	19,700	7,190	3,870,000	28,700	11,500	5,180,000
47% or more manganese:						
Australia	12,600	6,220	4,450,000	12,600	6,220	4,450,000
Brazil	--	--	--	2,830	1,520	1,240,000
Gabon	29,000	14,100	5,660,000	29,000	14,100	5,660,000
South Africa	--	--	--	100	49	51,000
Total	41,600	20,300	10,100,000	44,500	21,800	11,400,000
Grand total	61,300	27,500	14,000,000	73,200	33,300	16,600,000

-- Zero.

¹Quantities for general imports and imports for consumption are identical.

²Data rounded to no more than three significant digits; may not add to totals shown.

³Customs value generally represents a value in the foreign country and therefore excludes U.S. import duties, freight, insurance, and other charges incurred in bringing the material into the United States.

Source: U.S. Census Bureau.

TABLE 6
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE
DIOXIDE IN FEBRUARY 2014¹

(Metric tons, gross weight)

Source	Quantity	Customs value ²	January–February	
			Quantity	Customs value ²
Belgium	79	\$33,200	79	\$33,200
China	--	--	2	7,930
Germany	8	13,100	8	13,100
Japan	456	996,000	814	1,830,000
Netherlands	--	--	80	34,000
Singapore	--	--	12	20,200
South Africa	245	432,000	925	1,720,000
Turkey	170	88,000	170	88,000
Total	958	1,560,000	2,090	3,750,000

-- Zero.

¹Data rounded to no more than three significant digits; may not add to totals shown.

²Customs value generally represents a value in the foreign country and therefore excludes U.S. import duties, freight, insurance, and other charges incurred in bringing the material into the United States.

Source: U.S. Census Bureau.

TABLE 7
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE METAL IN FEBRUARY 2014¹

(Metric tons)

Source	Gross weight	Customs value ²	January–February	
			Gross weight	Customs value ²
Unwrought flake:				
China	135	\$300,000	785	\$1,710,000
Japan	65	222,000	111	379,000
Mexico	13	40,600	69	220,000
South Africa	442	1,180,000	1,410	3,790,000
Total	655	1,750,000	2,380	6,090,000
Unwrought powder:				
China	--	--	20	45,200
South Africa	258	879,000	536	1,850,000
Total	258	879,000	556	1,900,000
Unwrought, other:				
China	1,110	2,530,000	1,880	4,320,000
South Africa	58	195,000	117	367,000
Spain	--	--	1	2,400
Total	1,170	2,730,000	1,990	4,690,000
Other manganese, wrought, Poland	(3)	2,080	(3)	2,080
Metallic waste and scrap, Canada	146	57,900	248	286,000
Grand total	2,220	5,410,000	5,180	13,000,000

-- Zero.

¹Data rounded to no more than three significant digits; may not add to totals shown.

²Customs value generally represents a value in the foreign country and therefore excludes U.S. import duties, freight, insurance, and other charges incurred in bringing the material into the United States.

³Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 8
U.S. EXPORTS OF MANGANESE ORE (20% OR MORE Mn), FERROMANGANESE, SILICOMANGANESE,
AND MANGANESE METAL BY COUNTRIES OF DESTINATION IN FEBRUARY 2014^{1,2}

Source	Gross weight (metric tons)	F.a.s. ³ value (thousands)	January–February	
			Gross weight (metric tons)	F.a.s. ³ value (thousands)
Ore and concentrates with 20% or more manganese:				
Canada	346	\$796	346	\$796
China	--	--	19	17
Malaysia	--	--	6	8
Mexico	2	6	2	6
Netherlands	35	145	53	233
United Kingdom	20	17	20	17
Total	403	964	446	1,080
Ferromanganese:				
2% or less carbon:				
Canada	1,040	1,500	2,090	3,060
Japan	20	34	100	177
Korea, Republic of	10	23	10	23
Qatar	3	6	3	6
Spain	--	--	40	82
Total	1,080	1,560	2,250	3,350
More than 2% carbon:				
Canada	36	63	36	63
Chile	48	134	48	134
Equatorial Guinea	14	44	14	44
Others (3 countries)	5	12	9	22
Total	102	254	106	264
Silicomanganese:				
Canada	--	--	39	60
Mexico	--	--	20	33
Total	--	--	59	93
Metal, including alloys and waste and scrap:⁴				
Canada	--	--	3	7
China	7	108	11	126
India	--	--	20	13
Korea, Republic of	--	--	(5)	4 ^r
Malaysia	161	69	216	94
Mexico	4	15	26	78
Norway	--	--	18	833
Philippines	--	--	36	19
Taiwan	--	--	2	75
Venezuela	1	7	1	7
Total	172	198	334	1,260
Grand total	1,750	2,970	3,190	6,030

¹Revised.-- Zero.

²Presentation of monthly data is based on the "January–February" quantities of the leading countries.

³Data rounded to no more than three significant digits; may not add to totals shown.

⁴Free alongside ship.

⁵Includes manganese-aluminum, other alloys, and waste and scrap.

⁶Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 9
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN FEBRUARY 2014, BY CLASS¹

Class	Gross weight (metric tons)	Value ² (thousands)	Principal sources and destinations: gross weight (metric tons); value ² (thousands)	January–February		
				Gross weight (metric tons)	Value ² (thousands)	Principal sources and destinations: gross weight (metric tons); value ² (thousands)
Imports for consumption:						
Manganese oxides other than dioxide	444	\$392	Korea, Republic of 240; \$157	877	\$797	Korea, Republic of 440; \$311
Manganites, manganates, and other permanganates	--	--	--	(3)	5	Canada (3); \$5
Potassium permanganate	127	361	India 127; \$355	343	981	India 343; \$975
Sodium permanganate	58	151	China 39; \$92	193	472	China 174; \$413
Sulfates, basket category, including manganese sulfate	3,390	3,680	Mexico 1,710; \$1,430	9,700	8,680	Mexico 3,600; \$3,030
Exports:						
Manganese dioxide	252	603	Canada 72; \$86	611	1,540	Canada 209; \$236
Manganese oxides other than dioxide	972	1,600	Canada 181; \$142	1,670	2,770	Canada 314; \$306
Manganites, manganates, and other permanganates	14	43	Canada 13; \$31	57	159	Mexico 37; \$107
Potassium permanganate	376	967	Belgium 306; \$781	624	1,670	Belgium 415; \$1,040
Sodium permanganate	73	216	Mexico 37; \$129	91	274	Mexico 37; \$129
Sulfates, basket category, including manganese sulfate	1,530	1,940	Canada 1,090; \$659	3,110	3,590	Canada 2,390; \$1,510

-- Zero.

¹Data are rounded to no more than three significant digits.

²For imports, customs value; for exports, free alongside ship value.

³Less than ½ unit.

Source: U.S. Census Bureau.